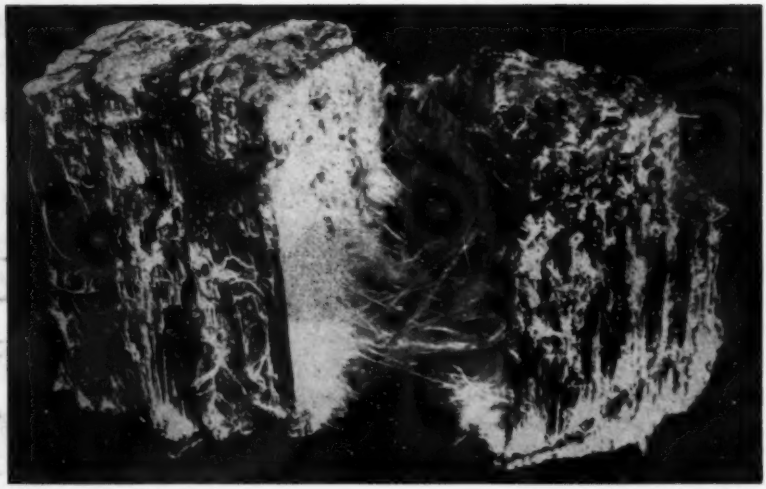
ASBESTOS



Vermont (U.S.A.) Crude *Courtesy The Ruberoid Co.*

APRIL 1959

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THE OUTLOOK FOR AMOSITE ASBESTOS

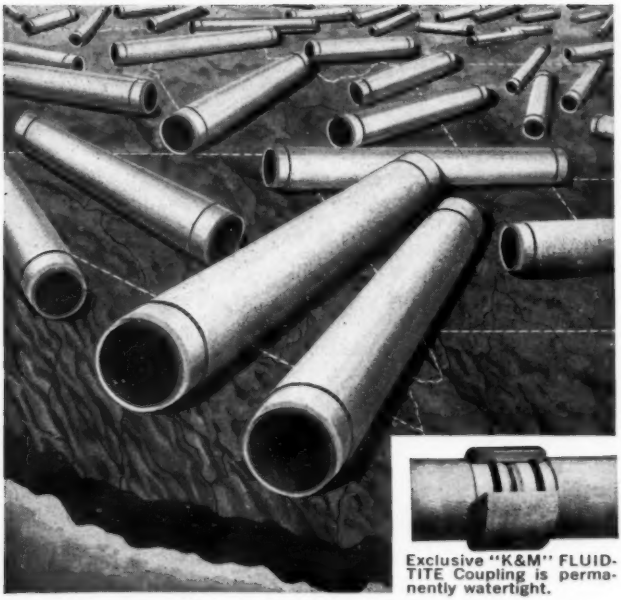
By W. E. Sinclair, M.I.M.M.

Once again, this unique amphibole variety of asbestos appears in the news not, as might be expected, to be declared a new and quite different species of the asbestiform family by some keen researeh worker. No, it is still accepted as one of the monoclinic amphibole series of the cummingtonite-grunerite group and, in commerce, it is still amosite, the grey colored, harsh, springy long fibered asbestos, which has become a most useful part of the industry.

The news affecting amosite today has no bearing whatsoever on the riddle of genesis or its mineralogical make-up, but on its future status in terms of tonnage available for world markets. It is simply a case, once again, of supply and demand being out of equilibrium due to a tightening effect on the market because demand exceeds supply. Normally, in any other circumstances the position might easily be rectified by an increase in selling price of the commodity, but the price of amosite has been rising steadily; from £20. per ton in 1942 to £43. per ton today.

In other ways, however, several factors enter into the picture, factors that embarrass both suppliers and manufacturers. A general review of the position shows that the commercial value and the comparatively low price of the fibre has been responsible for an increasing rate of utilization of this class of asbestos in industry and a demand that has outgrown the scale of production, restricted possibly because of a shortage of reserves.

Every aspect of the question gives rise to many interesting side-lights. First, the unprecedented demand in recent years for this little known variety of asbestos is one of the wonders of the industry. For, not so long ago, manufacturers looked askance at these long harsh fibres which they averred "were too long for their machines". In reply, the producers devised a guillotine and cut the



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fibre into shorter lengths! The changing manufacturing techniques and the marked progress in grading and the quality of the asbestos and its products, has altered all the old conceptions of amosite. Today, its valuable properties are recognized as being important, not only in the asbestos sphere but in products used widely in many branches of industry.

The exceptional length of amosite fibres is but one physical property of value and interest. Long fibres in the ore spell high values and cheap mining and, in industrial utilization, they offer decided advantages in many manufacturing processes. For example, when fully fiberized, the fibres form a mass of springy asbestos that prevents packing under vibration and eliminates shock entirely. Used in this form as a mattress insulant, the fibres weigh only 9½ lb. per cub. ft. which is about half the weight of other fibres used in this application. This bulkiness, combined with light weight resiliency, is not the only attribute of amosite; more important in certain conditions, is its non-hydroscopic property which, in addition, obviates corrosion and electrolytic reaction when used as an insulant on piping exposed to moisture. The fibres are also resistant to acids, high temperatures, sea water and weathering, and, for this reason, plus other physical properties the fibre is invaluable as a filler in special insulating products. As an example, blended with basic magnesium carbonate it is an important constituent in the product known as 85% magnesia insulation.

The diverse and comprehensive application of these fibres in the asbestos industry today obviously accounts for the increasing demand, a factor that is enhanced by its low cost.

Even at its highest market value the unit price of amosite has never exceeded that of any other class of asbestos, indeed, it is rarely much more than half the price of other varieties. An interesting point, indicative of the market trend, is that twenty thousand tons of the fibre were exported in 1957 at the record high price of £47. per ton.

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Previously, the prevailing low market price is accounted for by the fact that large scale production from rich lodes (containing 20% to 30% fibre content,) enabled producers (mainly producer-users) to dispose of their surplus output at a low price. No profit margin on production is considered by producer-users, since the quantity available is their main concern.

This position, unfortunately, made economic production of amosite by small producers impossible, despite the fact that in some cases they were able to combine crocidolite with their amosite output. Except for the main orebodies at Penge, near Lydenburg, most of the deposits in the Pietersburg-Lydenburg "Belt" are comparatively marginal and unless operated by a producer-user company are really unpayable at prices below £45. per ton.

Because of the persistent length of strike of the ('Belt'), which runs for over sixty miles, the potential reserves of amosite have been assumed, theoretically, to be unlimited. However, deep development on the dip of several of the principal bodies has not disclosed the values expected. Instead, there is a progressive deterioration, not only in fibre content, but in the length of the fibres. This condition is actually consistent with the mineralized zoning structure of these orebodies as already disclosed in the development of the "Fresh Zone" in many of the crocidolite orebodies, both in the Transvaal and the Cape fields. In addition, extended lateral development, on many of the main deposits, in recent years, has proved that, except for restricted payable areas, fibre disposition is extremely erratic.

Unless more widespread and extensive exploratory development is carried out along the strike of the amosite lodes to expose new orebodies, the latent resources are likely to be substantially reduced and the fibre output

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available to industry, a seriously dwindling asset. However production could be maintained by the exploitation of the smaller and patchy orebodies, but only at a considerably higher cost with a corresponding increase in selling price. While this is the natural law of supply and demand, it nevertheless introduces a possible stumbling block to the amosite producer in the shape of competition with other asbestos varieties and substitutes.

As an example, chrysotile can be used to replace amosite in 85% magnesia products, albeit the weight per cub. ft. is greater and the thermal efficiency of the substitute is somewhat lower. There are other instances where chrysotile may be used successfully to replace amosite, but at a rather higher price.

Fibre glass is another likely substitute, especially when these fibres are made of extra fine diameter (less than one micron), as they then possess a thermal efficiency comparable to amosite. However, even so, the extra fluffiness of amosite gives it a higher degree of thermal efficiency per unit of weight. And fibre glass at present costs five times as much as amosite.

In many applications today, amosite has to compete with other rival substitutes in about a like price field, as for instance, the insulating materials calcium silicate and diatomite.

It is fairly safe to say, however, that none of the possible substitutes would possess all the valuable characteristics of amosite, inherent properties that have been found essential in certain applications. A restricted supply to the industry will undoubtedly cause some embarrassment to manufacturers. Although a relatively small tonnage is used annually (56,798 tons in 1957), the fact that the world consumption was only 38,258 tons four years ago (in 1953) is indicative of the increasing popularity of the fibres in industry.

This position is one that provides much food for thought and some serious consideration amongst producers.

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JOHNS-MANVILLE CORPORATION
ANNUAL MEETING OF STOCKHOLDERS

A. R. Fisher, Chairman and President, told stockholders at the annual meeting held March 12, that Johns-Manville Corporation management is convinced 1959 will be a year of general recovery and that he expects the company to have a better year than in 1958.

Improving business conditions in 1959 are expected to lead into another great era of economic growth for the United States and Canada in the 1960's.

We are ready for it and confident that our stockholders will share in that growth. Johns-Manville Corporation earnings rose more than $4 million in 1958 despite effects of the business slump and a continuing national cost-price squeeze on business.

Johns-Manville sales for the first quarter of 1958 were hard hit by the nation-wide business recession, coupled with the normal seasonal sales drop during the winter months in a number of the Company's building products.

However, both sales and earnings came back in the last three quarters of 1958 and were higher than in 1957. This fact is attributed to recovery in sales and earnings largely to company-wide action in cutting costs of doing business. New plants, which began commercial production, also began putting money in the till instead of taking it out for continuing heavy start-up expenses.

Results at 1958 year-end showed earning at $21.9 million compared with $17.8 million in 1957, although sales dropped slightly to $304 million for 1958 compared with $308 million in 1957.

In spite of this good showing, we must be realistic and anticipate a constant trend in our economy toward higher raw material prices, increased transportation rates, higher wages and salaries and growing costs of employee benefits. All our planning for the future gives these factors first consideration.

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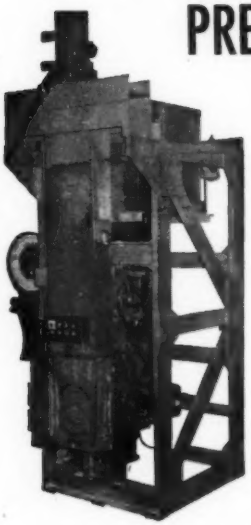

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Johns-Manville intends to keep growing. The Company is continually seeking new areas for profitable expansion. For example, growing demand for Johns-Manville floor tile products has forced the company's Marrero, Louisiana, plant to the limits of its production capacity. The company is now planning to build an additional floor tile plant at a mid-West location. Johns-Manville will spend around $20 million on various expansion projects in 1959, stockholders learned.

Acquisition by Johns-Manville of the L.O.F. Glass Fibers Company on December 31, 1958 brought combined sales to $331.7 million, with combined net earnings of $23.4 million. This transaction shows excellent prospects for growth.

Clinton B. Burnett, Executive Vice President, reported that Johns-Manville is already benefiting from entering the competitive fiber glass industry. J-M dealers and distributors are now being offered the most complete line of industrial insulations of any company in this business. We are determined to penetrate every profitable market in the country and establish Johns-Manville as one of the leaders in the industry. J-M has been planning this since 1952.

J-M stockholders were told that buying a growing business was the best way into the fiber glass industry. Any other method would have given the Company no control over supply of fiber glass products that would have to be bought from another manufacturer already well established. Or, it would have involved a long drawn-out, costly development over a number of years for J-M to attain a competitive position, if Johns-Manville had to start from scratch and build a fiber glass business of its own.

The new subsidiary, Johns-Manville Fiber Glass Inc., is already a going business and now is operating as a separate production and research division of Johns-Manville Corporation. The former L.O.F. sales force has been integrated with the J-M fiber glass sales organization.

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Johns-Manville capacity for meeting the demands of a growing market has been greatly strengthened by almost a quarter billion dollars invested in expansion, improvement, replacement and cost reduction since the end of World War II. This has helped boost sales from $86 million in 1945 to an average of more than $300 million for the past four years while earnings have jumped from $5 million in 1945 to an average of $22 million for four years between 1955 and 1958.

Ownership or control of the company's major raw material supply has put Johns-Manville in an exceptionally strong manufacturing position for many years to come.

In the case of asbestos fiber, Johns-Manville has asbestos ore reserves that should last for 75 years at the present heavy rate of consumption. We consider it in the best long-term interests of the Company to keep adding to these reserves. That is why we joined financially with a group last year to evaluate an asbestos ore body in Northern Newfoundland. The exploration and development work for this project by Johns-Manville will take about two years, and if this work shows that the deposit can be operated profitably, the group will construct facilities to mine and mill the asbestos ore. The Newfoundland asbestos operations would be under Johns-Manville management.

In spite of inroads made in the asbestos fiber market as a result of the opening of competitive mines in Quebec last year, and the increase in competition from Russian fiber in European and South American markets, Johns-Manville expects that over the long range increasing demands will exceed the present free world productive capacity.

As part of the company program to diversify and expand our business still more, a New Business Development Department under the J-M Vice President for Research and Development was established last year. Its responsibilities include the search for, evaluation, market study, initial semi-commercial production and introductory sales of new products in developing new markets and businesses.

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BUILDING

F. W. Dodge Corporation has announced that contracts for future construction in the United States (except Alaska) in January totalled $2,319,167,000, up 12 per cent compared to January 1958.

Dr. George Cline Smith, Dodge vice-president and economist, said of the January figures, "Once again the increase was due primarily to high levels of activity in the residential category with contracts for one- and two-family houses and apartments registering sharp gains."

"Also helping to boost the January total were increases in contracts for commercial, hospital and social & recreational buildings", added Dr. Smith.

Dollar volume of contracts for residential building in January totalled $1 021,516,000, an increase of 31 per cent over the similar 1958 month. The number of dwelling units represented by these contracts totalled 84,166, up 33 per cent compared to January 1958.

January non-residential contracts amounted to $818,225,000, a gain of 8 per cent over the like 1958 month. Besides the substantial increases registered in contracts for commercial, hospital, and social and recreational buildings, gains were also reported in contracts for religious and miscellaneous non-residential buildings.

In the heavy engineering category in January, contracts totalled $479,426,000, down 10 per cent compared to January 1958. While public works, aided by contracts for streets and highways, showed an increase, utilities were down because of a sharp drop in contracts for electric light & power systems.

MUNDET CORK CORPORATION
Appointments

The Mundet Corp Corporation of North Bergen, New Jersey, announces the appointment of *Kelley Asbestos Products Company*, located in Kansas City, Omaha, Wichita and Tulsa, to be distributor-contractor for Mundet Industrial Insulation Products.

The Kelley organization is well qualified to serve the requirements of industrial insulation users with a most complete thermal conservation service. Stocks of Mundet Insulations will be maintained for prompt deliveries.

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NEW POCKET GUIDE TO U.A.M. GROUP PRODUCTS

A new "pocket compendium" issued by the U.A.M. Group provides a handy guide to the wide range of Universal asbestos cement products, Union pitch fibre pipes and Unilux plastics sheeting.

The compendium has been completely re-designed in this, its fifteenth issue. It is now a 95-page square-backed booklet to International Size A.6 (approximately 5⅞" x 4⅛"), in conformity with the Group's policy of adopting the standard international sizes for all its technical publications. For easy reference, it incorporates an alphabetical index, and identification tabs in one of eleven classifications on the outer edge of every page.

Basic technical information is concisely presented, with sufficient tone illustrations and line drawings to give a clear idea of the nature and applications of each product. For asbestos cement sheeting, there is useful advice on handling and fixing, and tables on areas, weights and covering capacity. Further details are contained in the full-size catalogue sections for individual products.

The compendium is available on request from the U.A.M. Group Advisory Service, Tolpits, Watford, Herts, England.

CANADIAN ASBESTOS PRODUCTION—1958

(From U. S. Bureau of Mines)

U. S. Bureau of Mines has reported that production of asbestos in Canada decreased 17 percent in 1958 compared with 1957 and resulted in a decrease in world production since Canadian production represents 50 percent of the total world production of asbestos. The decrease in Canadian production reflected a decrease in demand as production facilities were increased by the opening of several new properties in Quebec.

Domestic production decreased from 44,000 tons in 1957 to 40,000 tons in 1958 according to estimates submitted by producers to the Bureau of Mines, United States Department of the Interior. Asbestos output was supported in part by a government purchase program which was completed at the end of 1958.

Although imports of crocidolite and amosite from the Union of South Africa were slightly greater in 1958 than in 1957, imports of chrysotile from Canada decreased, resulting in a net decrease of about 11 percent in total imports in 1958 compared with 1957.

The Bureau said that in 1958 imports were estimated at 605,000 (based on 9 months reports, January-September) short tons compared to 682,732 in 1957. Apparent consumption in the United States during 1958 was 642,600 short tons compared to 723,492 in 1957.

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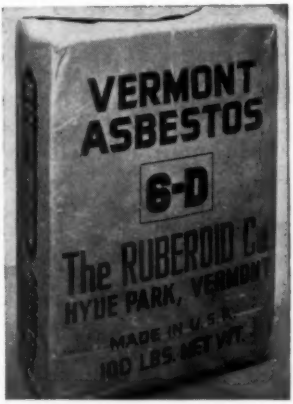

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U.A.M. GROUP CHAIRMAN'S ANNUAL STATEMENT

Since the start of the current financial year, the U.A.M. Group has received orders "in such volume that, despite increased capacity, production in many cases remains far behind demand". This is reported by Mr. Frank W. R. Douglas, chairman of the Universal Asbestos Manufacturing Co. Ltd., in his annual statement.

"Profits as compared with last year", says Mr. Douglas, "have risen in a most encouraging way and it would not be at all imprudent to look forward to some further improvement in our final results for the year."

Production capacity for asbestos cement is to be increased at the Watford works and at the Fibrecrete Ltd. factory at Chalford, Gloucestershire. Existing resources are sufficient to finance these developments. A new mechanized asbestos cement pipe plant is already being installed.

Group turnover for the year reviewed showed considerable improvement in all sections, especially that of the subsidiaries. Home deliveries of asbestos cement exceeded those of the previous year, assisted by the demand for insulated constructions under the Thermal Insulation (Industrial Buildings) Act, 1957, and Government grants for farm buildings. Fibrecrete Ltd. had a very successful year, contributing substantially to Group profits.

Union Fibre Pipes (Great Britain) Ltd., hitherto beset with teething troubles, is now operating profitably. Production has been increased considerably and the company is able to sell all the pitch fibre pipes it can make.

"A not inconsiderable profit" was made by U.A.M. Plastics Ltd. in its first full year. Demand for plastics translucent sheeting has been so satisfactory that production capacity has been doubled and selling prices reduced. Mr. Douglas forecasts "a great future" for this subsidiary.

Exports of asbestos cement by Universal Asbestos (Overseas) Ltd. were considerably reduced, due to the tendency to local production in developing countries, and

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severe and increasing competition. Pitch fibre pipes exports, however, amount to 25 per cent of total production and there is good opportunity for increased exports of these and of plastics translucent sheeting.

The Group has a substantial investment in the Universal Asbestos Manufacturing Co. (East Africa) Ltd., which is now operating at almost full capacity and in time is expected to be a very satisfactory associate.

The Annual Report contains a 12-page illustrated section explaining the development of the U.A.M. Group in recent years and the scope of its present activities.

For the year ending September 28, 1958, the Ordinary dividend recommended is 20 per cent (17½ per cent). Group Trading Profit was £335,237 (£201,358). Group Net Profit was £151,933 (£84,309) after taxation of £183,304 (£117,049). General reserve receives £70,000 (nil) and Consolidated Profit carried forward is £151,953 (£148,567).

Allowing for the recently issued £260,000 Convertible Unsecured Loan Stock, total Capital and Consolidated Reserves stand at £1,467,953 (£1,134,567). During the year some £110,000 was spent on new buildings, plant, etc.

The 22nd annual general meeting will be held on Thursday, April 2, 1959.

FIBREBOARD PAPER PRODUCTS CORP.

New Appointments

Four managerial appointments at Fibreboard Paper Products Corporation have been announced.

E. W. Carey was appointed vice president—marketings. He will assume the responsibilities of *B. P. Altick*, who is taking a leave of absence for reasons of health. Following Mr. Altick's return, he will continue actively as a vice president.

Two manufacturing appointments were also announced. *J. F. Havard* continues as vice president and will now be in charge of engineering and resources. *George Burgess*, formerly project director—Manufacturing Division, has been appointed general manager of the Manufacturing Division.

Joseph B. Fagot was appointed general manager of the Administration Division, assuming staff functions formerly under the responsibility of Mr. Carey.

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Additional cost savings may also be accomplished by shipment of pressure-packed paper bags unitized-loaded on an expendable paperboard pallet. Carey-Canadian unitizes a 3500 lb. load on an expendable paperboard pallet permitting easy removal by fork lift truck from the freight car. *87%* of the car can be unloaded in this manner, thereby saving many man hours.

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The Philip Carey Company, Lockland, Cincinnati 15, Ohio

AMERICAN BRAKE SHOE COMPANY

Annual Report

Sales and earnings of the American Brake Shoe Company declined during 1958, but prospects for 1959 are much improved, according to the Company's 1958 Annual Report.

American Brake Shoe's shipments in 1958 were $137,998,280, compared with $186,851,369 in 1957. Net earnings were $4,777,738 in 1958 and $9,124,438 in 1957. Earnings per common share were $2.97 in 1958 and $5.67 in 1957. Dividends on common stock were paid at the rate of 60 cents per quarter in both years, but no year-end extra was paid in 1958.

Orders received by the Company reached their lowest level in April 1958. A slight upturn began during the third quarter, and the upward trend has continued and accelerated into 1959. The firm's backlog of unfilled orders now stands at $42,350,000 compared with 1958's lowest backlog of $27,000,000, reached at the end of the second quarter.

During 1958, Brake Shoe completed a $6,000,000 expansion program in facilities for the production of manganese steel castings, strengthening its position as the world's largest producer of this tough metal. Construction was begun on a Hydrodynamic Research Center at Columbus, Ohio, to be fully equipped for research and development in the field of industrial hydraulics and related electronics.

Six plants were closed during the year, continuing the Company's trend toward fewer, but more efficient plants. Brake Shoe now operates 52 plants, 48 in the United States and 4 in Canada.

ASTM FACES CHALLENGE FOR SPACE AGE MATERIALS

During 1958, the American Society for Testing Materials took important steps toward meeting the challenge of "Materials for the Space Age". Through its Long-Range Planning Committee, it laid the groundwork for many constructive changes to keep pace with new technological demands.

A summary of the Society's 1958 activities was published in the January, 1959, ASTM Bulletin No. 235.

Particular attention is directed to the work undertaken on problems related to radiation effects, high temperature environments, nuclear reactor materials, reliability, and materials fundamentals.

In addition to facing up to the new problems presented by the conquest of space and the advanced technical problems related to nuclear energy, the Society continues to carry on research and standards development across the broad spectrum of practically all materials. Summaries of the activities in 53 of the fields are also included in the reprint.

Copies of this Bulletin may be obtained from ASTM, 1916 Race Street, Philadelphia 3, Pennsylvania.

100%

pure Amosite Asbestos CAPOSITE Rope

You can insulate better and cheaper with Caposite Rope because it yields 3 times the footage of ordinary asbestos rope on a pound for pound basis. It can be reapplied repeatedly for service up to 750° F. The flexibility of Caposite provides easy application in all diameters from ½" to 2". Ask for Bulletin 101 and samples.

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NORTH AMERICAN ASBESTOS CORPORATION
Board of Trade Building · Chicago 4, Illinois

In Canada
CAPE ASBESTOS (CANADA) LIMITED
200 Bloor Street East · Toronto, Ont. · Canada

CAPE

Subsidiaries of The Cape Asbestos Co. Ltd., London

MARKET CONDITIONS

GENERAL BUSINESS.

The upsurge in general business activity continues. Steel production keeps rising as buyers are adding to inventory to protect themselves against the threatened strike. This could lead to an unhealthy situation in some cases should the strike not materialize. Other factors continue to be favorable to the overall improvement. There are still certain soft spots notably in metal fabricating and machining which will not pick up until the larger concerns are operating at capacity and will then have to subcontract increasing amounts of their work. Except possibly in the case of the stock market there is no evidence of a real boom, but rather an unspectacular but steady improvement month by month.

ASBESTOS — RAW MATERIAL.

Shipments of asbestos fibre for the first two months of 1959 ran approximately 2% higher than the same period in 1958; however, 14% under the 1957 level. March shipments are anticipated to be slightly higher than those of 1958 with the first quarter close to 3% above the same period in 1958.

With the opening of navigation in April, it is expected that general business will pick up, particularly abroad, as a result of lower transportation costs by ocean and river, rather than freight shipments to open ocean ports.

All grades of fibre are in ample supply and relatively heavy inventories are being carried by all producers.

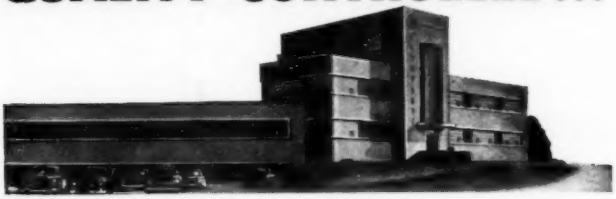
ASBESTOS — MANUFACTURED GOODS.

Asbestos Textiles. Market situation continues highly competitive and low prices are being quoted on standard items. Orders show a slight increase and the outlook appears reasonably good on specialty items.

Asbestos Brake Lining. Replacement market in sound condition. Inventories ran on the low side in December but are now building up rapidly. Market should continue to run at a high level and 1959 should be a record year in replacement sales.

Asbestos Paper. Orders for this material have been

QUALITY-CONTROLLED...



Flintkote's modern research center at Whippany, New Jersey provides the facilities and technical know-how to determine the right fibres for diversified product uses.

...FLINTKOTE Asbestos Fibres

You, too, can gain from experience. The Flintkote Company stresses quality—has manufactured quality products for over fifty years—uses quality-controlled asbestos fibres produced by Flintkote Mines in many of its products.

A wide variety of asbestos fibres now available for *your* use.

For further information and descriptive brochure—Write: The Flintkote Company, East Rutherford, New Jersey.

FLINTKOTE MINES, LIMITED

(Subsidiary of The Flintkote Company) Thetford Mines, P. Q., Canada

coming in about the same as previous months. It appears that new uses for this product have been found as a result of the increased use of atomic energy. It is anticipated that volume will increase over 1958. Orders for *Millboard* have improved slightly over the past months although competition is keen and there is drastic price cutting for the business that is available. It is anticipated that the volume for 1959 will be about the same as last year. The situation at the present time for *Saturated Paper* is slow; however, the outlook for the rest of 1959 is good.

High Pressure Insulation. Orders for this material continue to be received in an unsteady fashion. There is no definite trend that business is increasing. However, competition is extremely keen among the contractors for that business which is available. It is anticipated that demand will improve during the remainer of the year.

Low Pressure Insulation. Sales for this material have increased somewhat over the previous months and it is expected to get better as the weather improves. Orders for this type of material are expected to remain about the same as in 1958.

Shingles — Roofing & Siding. Order placements to date are approximately 15% higher than for the same period in 1958 and are considered normal and seasonal. Outlook for the balance of the year is good.

Asbestos Cement Products. The market situation at the present time is good. Much better than 1958, for the same period. An increase is expected during the last half of 1959.

A-C Pipes. Market situation is seasonally satisfactory and outlook appears promising for the remainder of the year.

H. J. ANGSTADT NAMED MANAGER OF K&M'S SANTA CLARA PLANT

H. J. Angstadt has been appointed manager of Keasbey & Mattison Company's asbestos-cement pipe plant in Santa Clara, California, according to E. J. Buczkowski, Vice President—Production. Prior to his transfer to Santa Clara in 1953, Mr. Angstadt was a quality control supervisor in the Company's asbestos-cement building products division in Ambler, Pa.

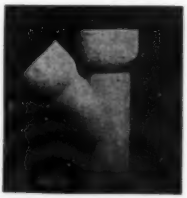
Now . . .
starting from the usual

WET ASBESTOS-CEMENT SHEET

A NEWLY-DEVELOPED LINE OF MACHINERY

(Patents Marchioli & Gremigni)

for manufacturing



FITTINGS

OF EVERY SHAPE AND DIMENSION

—TOUGH
—RESILIENT
—COMPACT
—WATERPROOF

PLANTS ALREADY IN OPERATION IN OUTSTANDING FACTORIES

Inquiries for Details, Quotations and References are welcome.

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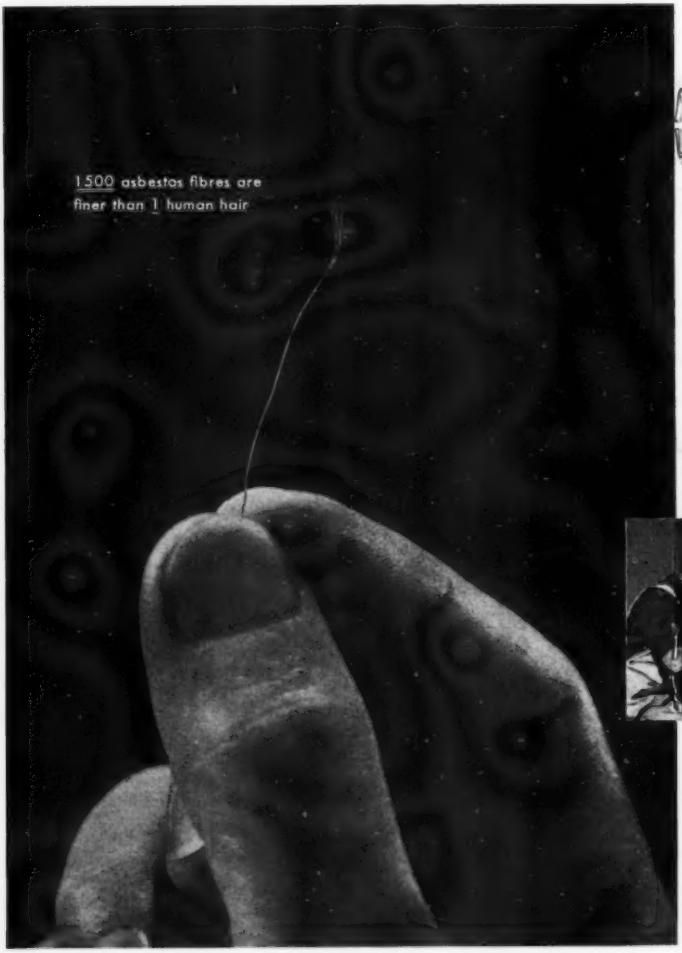
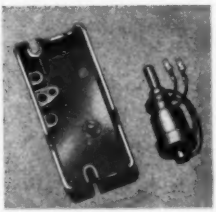

1,500 asbestos fibres are
finer than 1 human hair

THE FINENESS of J-M Asbestos Fibre assures higher loading, a stronger product

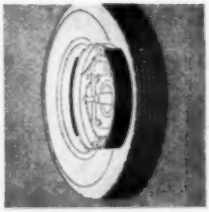
THE BROAD COVERAGE and dispersability of asbestos fibre in a given formulation may be appreciated when compared with nylon. Whereas 3,300 nylon fibres may be contained in one linear inch, as many as 1,400,000 asbestos fibres may be crowded into the same space to provide added strength.

Other important properties of asbestos include exceptional heat resistance, high tensile strength, and high bulking action. Chances are it can improve your product. For further information, write Asbestos Fibre Division, Box 1500, Asbestos, P.Q., Canada.

Building Materials are stronger, more weather-resistant and fire-resistant when made with J-M asbestos fibres.



Electrical Components made of asbestos-reinforced plastic are more durable, more fire-resistant with the high dielectric strength of J-M asbestos.



Brake Linings last longer, are more dependable when they are engineered with J-M asbestos fibres in the formula.

JOHNS-MANVILLE

JM PRODUCTS

CANADA

(Dept. of Mines, Province of Quebec)

Tons 2,000 lbs.

Production for January 1959 (Quebec)	50,558
Other Provinces	4,110
	54,668

Total production for January 1958 was 57,450 tons.

By Grades:	Year 1957	Year 1958
Crudes	604	580
Fibres	351,373	290,838
Shorts	641,447	582,052
	993,424	873,470

AFRICA (Rhodesia)

(Published by Rhodesia Chamber of Mines)

Tons 2,000 lbs.

Production for November 1958	9,875.67
Valued at	£657,015
Production for November 1957	11,270.57
Valued at	£780,352

UNION OF SOUTH AFRICA

(Quarterly Information Report—Dept. of Mines)

Tons 2,000 lbs.

	3rd Quarter (Jul., Aug. & Sep. 1958)				
	Production	Local Sales		Exports	
	Tons	Tons	Value	Tons	Value
Amosite	18,622	1,505	£ 40,135	15,445	£ 735,049
Anthophylite	..	..	..	..	..
Chrysotile	7,517	1,024	33,007	4,859	305,126
Cape Blue	14,277	552	28,767	13,992	1,043,987
Transvaal Blue	4,113	61	4,022	2,567	185,402
Tremolite	41	45	777	..	..
	26,570	3,187	£106,708	36,863	£2,269,564

CYPRUS

(From Inspector of Mines)

	4th Quarter (Ending Dec. 31, 1958)		
	October	November	December
Rock Mined	146,647	48,184	20,699
Rock Treated	76,150	76,530	24,739
Fibre Produced	2,580	2,458	1,772
Fibre Exported	3,115	1,206	310

$630-BILLION BUILDING BOOM SEEN DURING NEXT DECADE

The construction industry is in for a spectacular $630-billion boom during the next decade, the building magazine Architectural Forum said recently.

By 1968, according to Forum economist Miles Colean, spending for new construction will reach a whopping $75-billion a year, a rise of 53 per cent over last year's mark.

The magazine adds that its projections for the next decade "may be too modest". They are based on conservative productivity and population increases, both of which could well exceed estimates, thereby sending the building figure even higher.

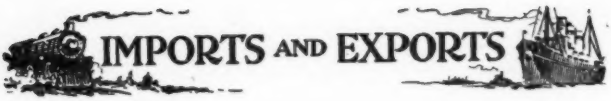
The magazine expects some sectors of construction to advance more rapidly than the 53 per cent increase predicted for all building.

Industrial building is expected to rise 117 per cent in the next decade, and by 1968 should be booming at a rate of $5-billion a year in new expenditures.

Store buildings, restaurants and garages will also show higher-than-average expansion, rising about 76 per cent by 1968 to $2.8 billion a year.

Nonresidential construction as a whole will rise considerably more (66 per cent) than private residential construction (45 per cent). Annual spending for new dwelling units should rise about 42 per cent.

Public construction will generally show more expansion than private building during the next decade. Highway construction will continue to boom, and by 1968 will total $9.5 billion a year, a rise of 77 per cent above last year's level. School building should rise at least 51 per cent—and could gain even more if the federal aid programs now being discussed are passed by Congress. Hospital construction will rise 75 per cent, and building of administration and service facilities 51 per cent by 1968.



Imports Into U. S. A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

	October 1958 Tons (2240 lbs)
From: Canada	49,931
Union of South Africa	4,904
Rhodesia (Ny)	847
Australia	641
Yugoslavia	503
United Kingdom	50
Other Countries	47
	56,923
Valued at	$5,830,492

By Grades:

Crude No. 1, Chrysotile, U. of S. Africa	18
Crude No. 1, Chrysotile, Rhodesia (Ny)	20
Crude No. 1, Chrysotile, Other Countries	1
Crude No. 2, Chrysotile, Other Countries	10
Crude, Other, Chrysotile, Canada	72
Crude, Other, Chrysotile, Yugoslavia	503
Crude, Other, Chrysotile, U. of S. Africa	189
Crude, Other, Chrysotile, Rhodesia (Ny)	448
Crude, Other, Chrysotile, Other Countries	4
Crude, Blue, Australia	641
Crude, Blue, U. of S. Africa	1,713
Crude, Blue, Rhodesia (Ny)	200
Crude, Amosite, U. of S. Africa	2,722
Textile Fibers, Chrysotile, Canada	980
Textile Fibers, Chrysotile, U. of S. Africa	57
Textile Fibers, Chrysotile, Other Countries	32
Shingle Fibers, Chrysotile, Canada	5,118
Shingle Fibers, Chrysotile, Rhodesia (Ny)	179
Paper Fibers, Chrysotile, Canada	4 524
Other Fibers, Chrysotile, Canada	39,237
Other Fibers, Chrysotile, United Kingdom	50
Other Fibers, Chrysotile, U. of S. Africa	205
	56,923

Manufactured Asbestos Goods:

	October 1958 Quantity (lbs.)	Value
Asbestos Yarn	13,493	$ 12,301
Asbestos Packing	5,426	2,732
Asbestos Shingles (Impreg)		
Belgium	213,897	25,839
Asbestos Shingles (Not Impreg)		
United Kingdom	104,000	10,169
Belgium	1,160,423	97,296
West Germany	536,787	35,417
Austria	437,856	26,164
Italy	1,256,606	57,879
Other Countries	6,400	304
	3,734,888	$268,101

IMPORTS OF ASBESTOS BY UNITED KINGDOM

Raw Materials

Tons 2,240 lbs.

	December 1958
From: Union of South Africa	2,004
Basutoland, Bechuanaland & Swaziland	506
Rhodesia & Nyasaland	1,616
Canada	7,766
Other Commonwealth Countries & Irish Republic	264
Foreign Countries	536
	12,696

KEASBEY & MATTISON COMPANY

Announces Changes and Promotions

Several personnel changes at Keasbey & Mattison Company, Ambler, Pa., have been announced by Norman L. Barr, General Sales Manager of K&M's Sales Division.

Daniel Shoemaker, formerly General Sales Manager of the Industrial Products Division has been named Assistant to the General Sales Manager of the Company's Sales Division.

Walter M. Deckman becomes General Sales Manager of K&M's Industrial Products Division. He formerly served as New York District Manager.

Frank Q. Chambers is K&M's newly named New York District Manager having been promoted from manager of the company's New York District Building Materials Department.

One of the country's pioneer asbestos products manufacturers, Keasbey & Mattison Company maintains factories in Ambler, Pa.; Meredith, N.H.; St. Louis, Mo. and Santa Clara, Calif., and an asphalt products plant at Perth Amboy, N.J.

Exports From U.S.A.

(Figures by Bureau of Census)

Unmanufactured Asbestos:

		December 1958 Tons (2240 lbs.)	Value
To:	Europe	216	$33,200
	South America	8	910
	Other Countries	30	8,650
		254	$42,760

Manufactured Asbestos Goods:

		December 1958 Quantity	Value
Asbestos Cement & Pipe Covering	Lbs.	413,746	$ 83,536
Asbestos Textile & Yarn	Lbs.	48,708	55,740
Asbestos Packings	Lbs.	134,231	186,185
Asbestos Clutch Facings	No.	76,691	75,602
Asbestos Bk. Lng. (Mld.&S.Mld.)	Lin. Ft.	112,965	57,076
Asbestos Brake Lining, Other	Lbs.	367,581	308,971
Asbestos Construction Materials	Lbs.	974,139	122,659
Asbestos Manufactures — Others		..	55,627
		2,128,061	$945,396

KEASBEY & MATTISON COMPANY APPOINTS VERNON F. STOMPLER

Vernon F. Stompler has been appointed Inspection Control Supervisor in the Quality Control Division of Keasbey & Mattison Company, Ambler, Pennsylvania, manufacturers of asbestos, asphalt and heat insulating products. The announcement was made by C. R. Meek, manager, Quality Control Division. Mr. Stompler was formerly Manager of Pressure Pipe sales.

Mr. Stompler, who joined K&M in 1938, was selected for the newly created position because of his extensive practical field experience in the application of K&M products, particularly asbestos-cement pipe, and his knowledge of manufacturing processes.

ASBESTOS FIBRES
ASBESTOS WASTE
Frank G. Ruggles Co. Inc.
26 BROADWAY
NEW YORK 4, NEW YORK

THE PHILIP CAREY MFG. CO.

Annual Report

Net income of The Philip Carey Manufacturing Company and subsidiaries for the year ended December 31, 1958, was $2,031,754, or $2.39 per common share, compared with $2,623,012, or $3.08 per common share, for 1957.

Dividends of $1,360,602, or $1.60 per common share, were paid during the year.

Consolidated net sales for 1958 were $66,455,602, compared with $69,889,864 for 1957.

The reductions in net income and net sales, as compared to 1957, were primarily due to very low competitive price levels on asphalt roofing products throughout the first eight months of the year and from the strike at our Lockland, Ohio, plant in May, 1958. Drastic economies to reduce manufacturing, selling, and administrative costs, instituted early in the year, and still in effect, prevented these revenue reductions from more seriously affecting our final net income.

In December, 1958, the company's 3⅞% note issue was reduced to $8,850,000. An installment of $575,000 will be due in 1959, and annually thereafter until 1972, when $1,375,000 will become due.

The wholly-owned subsidiary, Carey-Canadian Mines, Limited, issued during 1958 $2,000,000 of 5¼% notes, due in 1959. This was done to complete the new asbestos mill and mining facilities at East Broughton, Quebec. For this project, $7,500,000 had previously been financed by having issued 3¾% notes, maturing in varying amounts semi-annually, beginning January 1, 1959, through January 1, 1962.

UNITED ASBESTOS CORPORATION, LTD.

Elects Bartlett Pinkham

Mr. Bartlett Pinkham, as associate of Allen & Co., New York City, Investment Bankers, was recently elected to the Board of Directors of United Asbestos Corporation, Ltd., Montreal, P. Q., Canada.

Complete Plants for making

ASBESTOS CEMENT PIPES

Socketed and Non-socketed
Precision Steel Mandrels
Plants for Making Sheets, Autoclaves for Steam Hardening

Plants designed, equipped and financed.

ASBESTOS CEMENT ENGINEERING CO.
Hauptstrasse 26
VADUZ-LIECHTENSTEIN (Switzerland)
P. O. Box 34.649

Exports from Canada

(Published by Dominion Bureau of Statistics)

Unmanufactured Asbestos:

	December 1958 Tons (2000 lbs)	Value	Year 1958 Tons (2000 lbs.)	Value
Crude				
United States	20	$ 21,930	285	$ 258,684
United Kingdom	..	..	95	126,100
South America	..	..	..	..
Central America & Mexico	..	..	..	..
European Countries	18	13,955	76	66,485
Other Countries	11	13,132	27	27,707
	49	$ 49,017	483	$ 478,976
Milled				
United States	10,203	$2,141,961	131,938	$24,815,414
United Kingdom	2,152	448,851	27,086	5,799,091
South America	3,012	588,947	19,171	3,602,088
Central America & Mexico	625	111,023	7,611	1,382,200
European Countries	6,877	1,423,280	83,196	17,433,512
Other Countries	8,414	1,375,122	49,278	8,297,727
	31,283	$6,089,184	318,280	$61,330,032
Shorts				
United States	34,782	$1,868,484	450,143	$23,351,902
United Kingdom	5,217	246,880	38,123	1,934,722
South America	494	29,186	4,658	328,466
Central America & Mexico	169	13,459	2,074	129,539
European Countries	5,531	289,889	39,789	2,162,236
Other Countries	3,861	332,054	13,080	1,029,140
	50,054	$2,779,952	547,867	$28,936,005
Grand Total— Unmanufactured Asbestos:	81,386	$8,918,153	866,630	$90,745,013
Manufactured Asbestos Goods:				
Brake Lining		$ 54,517		$ 447,674
Packing		584		3,938
Other Materials		69		325,353
		$ 55,170		$ 776,965

KEASBEY & MATTISON COMPANY

Appointment

Lee Z. Wilkins has been appointed sales service manager in the Sales Division of Keasbey & Mattison Company, Ambler, Pa., manufacturers of asbestos, asphalt and heat insulating products, according to Norman L. Barr, General Sales Manager. Prior to joining K&M, Mr. Wilkins was associated with I.T.E. Circuit Breaker Co., Philadelphia, as Market analyst.

We're on both sides of your asbestos quality problems!

We understand your manufacturing problems because we make a wide range of asbestos-cement products, using our own asbestos fibres. Our research people are constantly busy, either helping the plant maintain the strict quality control that we know you expect or preparing special formulae for customers.

Get the benefit of our double experience. Write to National Asbestos Mines, Ltd., Thetford Mines, P. Q., Canada. (Subsidiary of National Gypsum Company).

Gold Bond
INDUSTRIAL PRODUCTS

a step ahead of tomorrow

EXECUTIVE MANAGEMENT CHANGES AT MANHATTAN RUBBER DIVISION, RAYBESTOS-MANHATTAN, INC.

Raybestos-Manhattan, Inc., announced that *John H. Matthews*, Executive Vice President, retired from full general management responsibilities of the Manhattan Rubber Division, Passaic, N. J. He will continue as a director of the company and as a consultant. Mr. Matthews has served Manhattan for 45 years and was instrumental in bringing Manhattan to its present size and high degree of efficiency together with building and putting in operation new plants at Crawfordsville, Indiana, Neenah, Wisconsin, and Peterborough, Ontario, Canada. He is also a director of the American Synthetic Rubber Company at Louisville, Ky., The Rubber Manufacturers Association, and the Manhattan Securities Company.

The following Manhattan Division management organization changes were made. *Joseph N. Kuzmick* became Divisional Manager. Mr. Kuzmick previously was Coordinator of Corporation Research and Development activities. He has been with Manhattan for 40 years, having started in 1919. Mr. Kuzmick has been active for many years in the development of abrasive and diamond wheels, synthetic resins, plastic products, bowling balls, brake linings and sintered metal friction products. During World War II he served on the War Production Board in an advisory capacity. As co-ordinator of research and development, he had the opportunity to become familiar with all Corporation products and future development planning.

To assist Mr. Kuzmick, *Clarence P. Schneider* was elevated to the post of Assistant to the Divisional Manager. Mr. Schneider has been General Manager of the Wabash Division at Crawfordsville, Indiana to which he was appointed Factory Manager when this new plant was built in 1951. Previously he was Assistant Manager of the Friction Material Department at Passaic. Mr. Schneider started with Manhattan in 1929. He will make his residence again in this area and continue to supervise the activities of the Wabash Division as General Manager.

Because of the many problems arising at the manufacturing level, two Manufacturing General Managers are now in charge of the production departments. *Robert J. Gorecki* and *Wilder E. Perkins* assume these executive responsibilities each with title of Manufacturing General Manager. Mr. Gorecki supervises and directs activities of the departments manufacturing molded products, flat belts, packings, friction materials, abrasive and diamond wheels, and bowling balls. Mr. Perkins directs the activities of the departments manufacturing V-belts, hose, platens, rolls, tanks and blankets. Mr. Gorecki and Mr. Perkins both started with Manhattan in 1926.

DURASORB FELTS give better finish because . . .

The superior needled construction of DURASORB felts results in a cushioned surface which handles your sheet with protective firmness. In addition to excellent finish, DURASORB felts provide a new degree of stability and uniformity while maintaining maximum drainage and long life.

Ask your Albany Felt Sales Engineer for full information and case histories on the outstanding performance of DURASORB felts in producing asbestos-cement shingles, siding and sheets.

AF

ALBANY FELT COMPANY

Main Office & Plant, Albany, N. Y.
Other plants: Hoosick Falls, N. Y., N. Monmouth, Me.
St. Stephens, S. C., Cowansville, P.Q.

FIBREBOARD PAPER PRODUCTS CORPORATION

Annual Report

San Francisco, California . . . Fibreboard Paper Products Corporation announced that its net earnings for 1958 were $4,813,000 or $2.86 per common share, compared with $4,086,000 or $2.47 per common share for 1957.

Net sales in 1958 were $114,665,000 compared with $125,697,000 in 1957, which included sales of $5,809,000 of Fibreboard Products (Eastern Division) Inc., a wholly-owned subsidiary sold in December, 1957.

Improvement in earnings in 1958 results from the company-wide program of cost and expense reduction and from increased efficiencies in operations. Additionally, sales and profits in the building material division improved substantially with the increase in residential construction in the last nine months of 1958. Profits in the packaging division were affected by the March 31, 1958, reduction in the selling price of corrugated containers.

Pointing to that section of the balance sheet showing a current ratio of 6.8 to 1, and cash and U. S. Government securities of $25,316,000, President William L. Keady said "This strong position will permit the company to continue its expansion of facilities with which to embrace the great opportunities in paperboard products and in gypsum and other building materials in the west".

Major Fibreboard construction projects now underway to increase capacity for manufacture of gypsum products at Newark and South Gate, California, were discussed by Mr. Keady. Construction of a new plaster mill at the company's Florence, Colorado, gypsum products plant is scheduled for completion this spring, he said, at which time construction of a similar mill at South Gate will be started.

In 1958, a vast gypsum deposit on company-owned land at Apex, Nevada was proved, according to Mr. Keady.

"This deposit, which contains over three quarter billion tons of high-grade gypsum rock, has no overburden, so mining costs will be among the lowest in the country. It also assures the company for centuries a strong competitive position in this important segment of the building industry in Southern California, the country's fastest growing market", Mr. Keady said.

WILHELM BURGDORF

Importer of **Raw Asbestos**

P. O. Box 1131, BREMEN, GERMANY

KEASBEY & MATTISON CO.
Introduces New Industrial Insulation—K-BOARD

K-BOARD, a new industrial insulation of the rigid board type, has been introduced by Keasbey & Mattison Company, Ambler, Pa., which offers low thermal conductivity (k) and a remarkably low density. It is furnished in sheets 42" x 48" with thickness of 1/8", 1/4", 3/8" and 1/2".

Asbestos fibers are combined with incombustible and chemically inert ingredients and pressure-formed into a quality sheet. A good strength-to-weight ratio provides more than adequate strength for most applications.

K-BOARD is especially suitable for ceilings, walls and floors in buildings housing equipment generating high temperatures such as furnaces, hot tanks and other heat producing apparatus. In laundries, paper mills, wool processing and meat packing plants, where humidity and steam are a problem, K-BOARD will retain its dimensional stability and it will not deteriorate in areas where condensation is likely to occur. It will withstand a soaking heat of 1200° F maximum.

The new K&M insulating material is easily installed since it can be drilled, nailed and sawed with ordinary carpenters' tools. K-BOARD'S light weight keeps handling costs low.

ASBESTOS TEXTILES

US RUBBER

are manufactured in our own modern plant at Stark Mills, Hogansville, Ga. Spinning and weaving operations are closely controlled for maximum uniformity in asbestos yarns, fabrics and tapes. Specialties developed to meet customers' requirements.

Write: Asbeston® Dept., Textile Division
UNITED STATES RUBBER COMPANY
1230 Avenue of the Americas, New York 20, N.Y.

NEWS OF THE INDUSTRY

HAPPY BIRTHDAY

Philip A. Meyer, President, Nicolet Asbestos Mines, Ltd., Norbestos, Quebec, Canada; and Vice President, Nicolet Industries, Inc., Florham Park, N. J., April 16.

Robert W. Weaver, Vice President, Grant Wilson, Inc., Chicago, Ill., April 16.

Joseph D. Francis, Secretary-Treasurer, Asbestos Products, Inc., St. Paul, Minn., April 17.

Lorne Bain, President, Asbestos Erectors of Canada, Ltd., Montreal, Canada, April 19.

Alvan D. Simpson, President, Asbestos Erectors, Inc., Bound Brook, N. J., April 19.

George A. MacLellan, Managing Director, George MacLellan & Co., Glasgow, Scotland, April 19.

Guy H. Montmartin, President, Alpine Mining Corp., New York City, April 21.

H. J. Dowd, First Vice President, Smith Asbestos Products, Inc., Millington, N. J., April 22.

John R. Skidmore, Secretary-Treasurer, Pacific Asbestos-Cement Products Corp, San Bernardino, Calif., April 22.

H. B. Johnson, District Manager, The Philip Carey Mfg. Co., Chicago, Ill., April 23.

Joseph Matulicz, Partner, Amity Asbestos Associates, Brooklyn, N. Y., April 26.

Frank R. Hickory, President, Asbestos Products, Inc., St. Paul, Minn., April 27.

J. Carroll Johnston, President and Treasurer, Atlas Asbestos Co., North Wales, Pa., April 28.

Merlin W. Simon, Secretary, Sprinkmann Sons Corp., Milwaukee, Wisc., April 30.

Richard H. Jaffer, President, York Insulation Company, Inc., Hillside, N. J., May 1.

Frank B. Kreider, Union Asbestos & Rubber Co., Bloomington, Ill., May 2.

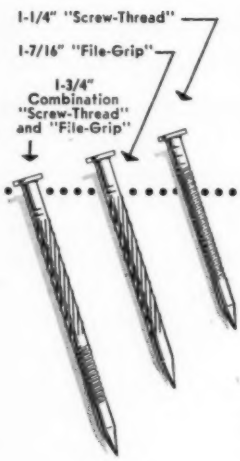
R. G. Bennett, Roofing Manager, A. H. Bennett Co., Minneapolis, Minn., May 4.

Gerard A. Reynolds, Vice President, Armor Products, Inc., New York City, May 4.

S. E. Josi, Director, Johns-Manville Co., Ltd., London, England, May 5.

C. G. Dandrow, Vice President, Johns-Manville Sales Corp., New York City, May 12.

L. M. Cassidy, Director, Johns-Manville Corp., New York City, May 13.



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PAINTED
ALUMINUM
ASBESTOS FACE
Nails

TO MATCH
THE *NEWEST*
COLORS IN
ASBESTOS SIDING

- PAINTED TO MATCH YOUR EXACT COLOR REQUIREMENTS
- EXCELLENT PAINT ADHERENCE
- AVAILABLE IN ALL COLORS AND WHITE

Your products deserve the best fasteners available. Protect their beautiful colors with inconspicuous NICHOLS RUSTPROOF PAINTED ALUMINUM NAILS. We will paint aluminum asbestos face nails to meet your exact color-match requirements; also available in the satin etched finish. Write today.

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DAVENPORT, IOWA

L. T. Bennett, Vice President, A. H. Bennett Co., Minneapolis, Minn., May 14.

John L. Anderson, Vice President, Asbestos Products, Inc., St. Paul, Minn., May 15.

A. M. Ehret, Sr., Chairman, Ehret Magnesia Mfg. Co., Valley Forge, Pa., May 15.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

ASBESTOS CORPORATION LIMITED

Annual Report 1958

Asbestos Corporation net profit for 1958 was $4,134,769 or $2.29 per common share, down 20.8% from $5,223,191 or $2.90 per share in the previous year.

Sales in 1958 were down 17% in volume and 19% in value from record results in 1957. This is due to the general business decline in North America and its effect on world commerce.

In addition, substantial tonnages shipped in late 1957 in anticipation of an increase in asbestos prices resulted in some curtailment in customers' orders in the past year.

In 1958, company completed enlargement of the Beaver Mill (now called the King-Beaver Mill) to handle output from both the King and Beaver mines. In December, the King Mill was shut down. The new King-Beaver Mill is approaching full-capacity operation.

Capital cost of the changeover at the end of 1958 had reached $5,950,000, slightly more than the $5.5 million originally estimated.

In 1958, company undertook considerable exploration work. Prospecting was carried out on properties in the Yukon and Newfoundland where company has joint arrangements with British Newfoundland Explorations Ltd. The programs will be continued in 1959.

In Mexico, company has examined four large areas showing asbestos. Option on one property was dropped.

With improvement of economic conditions in the U.S., markets for Canadian asbestos in that country are expected to firm in 1959.

D. P. MALONEY NAMED GENERAL PLANT MANAGER OF K&M'S ST. LOUIS PLANTS

Daniel P. Maloney has been named general plant manager, in charge of manufacturing operations, of Keasbey & Mattison Company's St. Louis factories, according to E. J. Buczkowski, Vice President—Production. The plants manufacture asbestos-cement pipe and asbestos-cement building materials. Mr. Maloney joined K&M in 1935 and was formerly plant manager of the Company's Santa Clara, California asbestos-cement pipe plant.

Exporters of

RAW ASBESTOS

ALL GRADES—ALL TYPES

C. J. PETROW & COMPANY (PTY.) LTD.

P. O. BOX 11000 — CABLE: SOTSEBSA

VOLKSKAS BLDG. — 76 MARKET STREET

JOHANNESBURG - SOUTH AFRICA

INDUSTRIAL SERVICE COMPANY

Builders of

ASBESTOS CEMENT MACHINERY

Our experienced engineers and machinists offer the industry entire machines built to deliver maximum production.

Your Inquiries Are Invited

1-51 Paterson Avenue E. Rutherford, N. J.

THE FLINTKOTE COMPANY

Sales and Profit Picture Improve

Sales of The Flintkote Company during the first two months of 1959 ran approximately 15 per cent ahead of a year ago and the Company "operated on a profitable basis" in comparison with a loss reflected in the first two months of 1958, I. J. Harvey, Jr., chairman of the board and chief executive officer, reported to stockholders at the annual meeting in Boston, March 25.

Shareholders approved a proposed three-for-two split in the common stock by increasing the authorized $5-par common from 5,000,000 shares to 7,500,000 shares of common stock also with a par-value of $5 per share, effective March 26, 1959. The stockholders further voted to increase the new authorized $5-par common to 10,000,000 shares.

Tonnage reports of this leading producer of building products for home and industry for the first three weeks in March "indicate a strong basis for continued good business during 1959", Mr. Harvey stated. He added that he is "sticking with my earlier projection for housing starts to reach 1,300,000 for the year".

Commenting on Flintkote's prospects for 1959, Mr. Harvey said he expects sales to establish an all-time record for the year at approximately $200,000,000, including operations of the Blue Diamond Corporation. An agreement for the merger of Blue Diamond into Flintkote will be presented to Flintkote stockholders for approval at a special meeting on May 5.

"Earnings for Flintkote in 1959", Mr. Harvey stated, "should show improvement in the light of increased volume and a stronger price structure".

After a loss in the first quarter of 1958, Flintkote reported for the full year net income of $7,536,066, equal after preferred dividend requirements to $3 per share on 2,125,598 average common shares outstanding. Sales for 1958 aggregated $156,172,630.

Flintkote's capital expenditures during 1959, Mr. Harvey said, "should approximate $15,000,000, with the major portions of this expenditure going into previously announced expansion projects". These include expansion of cement-producing facilities of Kosmos Portland Cement Company, Flintkote subsidiary in Louisville, Ky.; expansion of Utah Lime and Stone with a new plant at Salt Lake City, Utah, for production of "Miracle Lime"; completion of Flintkote's building materials plant at Ennis, Texas; expansion of the Orangeburg Manufacturing Division's production facilities for plastic pipe at a plant in Marion, Ind., and expansion of container production through a new Hankins Container Division plant also at Marion, Ind.

Mr. Harvey said Flintkote "continues interested in further diversification and expansion through acquisition and merger".

Now in Operation: New Independent Source of Asbestos. Lake Asbestos of Quebec, Ltd. will supply 100,000 tons of high-quality chrysotile asbestos fibre annually. If you need a new dependable source for high grade asbestos, write to Lake Asbestos of Quebec, Ltd., 120 Broadway, N.Y. 5, N.Y.

North American Sales Agents:

Baker & Collinson
Detroit 12
Michigan

E. M. Walls Company
San Francisco 11
California

A. C. Mueller Co., Inc.
Cleveland 14, Ohio

Van Horn, Metz & Co., Inc.
Conshohocken
Pennsylvania

E. B. Taylor Company
Los Angeles 13
California

D. H. Litter Co., Inc.
New York and Allston,
(Boston) Mass.

Federated Metals
Houston 29
Texas

LAKE ASBESTOS OF QUEBEC, LTD.
a subsidiary of American Smelting and Refining Company

KEASBEY & MATTISON COMPANY

Names G. J. Goll, Government Representative

George J. Goll has been appointed government representative, with headquarters in the National Press Building, Washington, D.C., by Keasbey & Mattison Company, Ambler, Pa., manufacturers of asbestos, asphalt and heat insulating products. He succeeds the late R. M. Penman who held the post for the past 18 years.

Goll, who joined K&M in 1937, was responsible for all priority, C.M.P. and material allocations during World War II and more recently has been concerned with general sales administration.

As government representative, Goll will act as liaison between Keasbey & Mattison Company and the United States Government in all matters involving the use of K&M products by the various Federal Agencies.

In addition to representing K&M, he will also assist various associations allied with the asbestos industry in their relationships with the Federal Government.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial & Financial Chronicle. No guarantee as to their correctness.)

		March 1959		
	Par	Low	High	Last
Amer. Br. Shoe (Com)	np	47¾	50⅞	49¼
Armst. Ck. (Com)	1	39	41½	39⅜
Armst. Ck. (Pfd)	np	83½	86	85½
Asbestos Corp. (Com)	np	31	34⅛	31
Carey (Com)	10	41⅛	49¼	42
Cassiar Asb. Corp.	np	10	12⅛	10¼
Celotex (Com)	1	41¼	44⅞	44
Celotex (Pfd)	20	19½	20	19⅞
Certain-Teed	1	13⅞	15⅞	15⅞
Fibreboard Paper Prod (Com)	np	52⅞	57⅜	56
Flintkote (Com)	5	56¾	62½	60¼
Flintkote (Pfd)	np	86¼	90	89
Johns-Manville (Com)	5	52¾	58⅛	54½
Natl. Gypsum (Com)	1	62¼	67⅜	67
Natl. Gypsum (Pfd)	np	93½	98	94⅞
Porter, H. K.	100	92½	93¾	93¾
Ray-Man (Com)	np	61¾	64½	62
Ruberoid	1	44¼	47½	45
Union Asb. & Rubber. (Com)	5	11⅞	14	13
United Asb. (Com)	1	$5.25	$6.45	$5.50
U.S. Gypsum (Com)	4	103	113¼	110¾
U.S. Gypsum (Pfd)	100	158¼	166	166
U.S. Rubber (Com)	5	50¼	58⅞	55⅛
U.S. Rubber (Pfd)	100	150¼	152½	151¾

BELL ASBESTOS MINES LTD.

THETFORD MINES, QUE.

CANADA

Producers of

Raw Asbestos Crudes

& Fibres

Sales Representatives

for

Cassiar Asbestos Corporation Limited

AUTOMOBILE SALES

	January 1959
Passenger Cars	539,451
Motor Trucks	95,810
Motor Coaches	169
	635,430

In January 1958, a total of 558,533 motor vehicles were sold. In the year of 1958 the total was 5,135,106.

These figures were supplied by the Automobile Manufacturers Association, New Center Building, Detroit, Michigan.

NATIONAL BUREAU OF STANDARDS BUILDING MATERIALS AND STRUCTURES REPORT 140

The above report, by Edith R. Meggers, gives sources of information concerning building construction and maintenance. It contains titles of papers dealing with the practical aspects of building construction and some publications of a more technical nature.

The list includes both free and sale publications available from Government, trade associations and universities. Also listed are a few of the standards relative to construction and maintenance issued by the American Standards Association and the American Society for Testing Materials, as well as some specifications of the Federal Government.

The detailed table of contents and the comprehensive index make it possible to locate publications on many subjects pertinent to the construction, repair, maintenance, or remodeling of buildings.

Order from Superintendent of Documents, Government Printing Office, Washington 25, D. C. (Price 30 cents).

Antony Gibbs & Co., Inc.

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New York 6, New York

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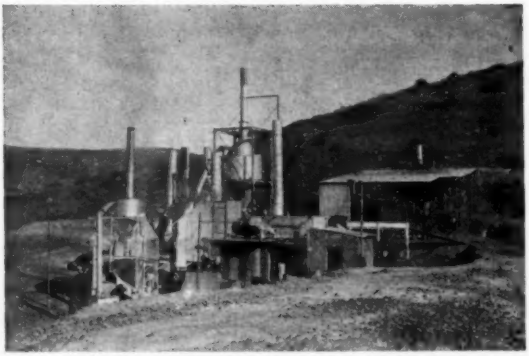


View of Blue Asbestos Reducing Mill

ASBESTOS FIBRES

Chrysotiles, Blues, Amosites

Agent in the United States for

S. A. ASBESTOS TRADING (PTY.) LTD.

CANADIAN JOHNS-MANVILLE CO., LTD.

Appoints Noel W. Hendry

Mr. Noel W. Hendry, Assistant Sales and Merchandising Manager for the Asbestos Fibre Division, has been appointed General Sales Manager, it was announced by Karl V. Lindell, Vice President of Canadian Johns-Manville and General Manager of the Company's Asbestos Fibre Division.

Mr. Hendry joined the Company in May 1949 as Senior Mining Engineer at Jeffrey Mine. In February 1950, he was made Chief Geologist in the Exploration Department of the Division and in 1953, he became Exploration Manager. In January 1958, he was made Assistant Sales and Merchandising Manager.

Mr. Hendry is a graduate of the University of British Columbia Class of 1937, with the degree of B. Sc. in Engineering and Geology. He also holds an M. Sc. degree in Geology from the California Institute of Technology. In his new capacity, Mr. Hendry will replace J. C. Kelleher, present Sales Manager, who will retire effective February 1, 1959 after more than 41 years of J-M service.

RAYBESTOS-MANHATTAN, INC.

Annual Report to Stockholders

The Annual Report of Raybestos-Manhattan, Inc. for 1958 shows net income of $1,902,017 or $3.01 per share, compared with 1957 net income of $3,452,240, or $5.47 per share, a decrease of 45%.

Sales were $72,260,256 for 1958 as compared with 1957 sales of $82,176,291. The 12% decrease occurred principally in the sales of industrial rubber products, asbestos textiles and friction materials to original equipment manufacturers, and materially affected the Company's earnings.

"Specialty Fibres Our Business"

Metate Asbestos Corporation

P.O. Box 111 Globe, Arizona

Producers of Arizona Asbestos Grades AAA, 3, 4, 5, 6, 7 and 8 Milled Fibres

Very white, low iron content, high drainage harsh fibres, high filtration soft fibres.

RAW ASBESTOS DISTRIBUTORS

LIMITED

FOR CANADIAN, RHODESIAN
AND SOUTH AFRICAN ASBESTOS

ASBESTOS HOUSE • 77-79 FOUNTAIN ST. • MANCHESTER 2
ENGLAND

KEASBEY & MATTISON COMPANY PROMOTES ROYAL MATTISON, JR.

Royal Mattison, Jr. has been promoted from Manager, Sales Engineering, to Manager of Keasbey & Mattison Company's Power and Controls Group in the K&M's Engineering Department, according to R. A. Schneider, Vice President-Engineering.

In his new capacity, Mr. Mattison will head up a specialized engineering group which will have a dual function. It will be responsible for the distribution of power throughout K&M plants as well as the design and performance of those electrical and hydraulic mechanisms involved in implementing the Company's program of automation in its manufacturing plants

CURRENT RANGE OF PRICE

As of April 10, 1959

ARIZONA— Per Ton of 2,000 lbs., f.o.b Globe, Arizona			
No. 1 Crude (soft)	$1,500.00	to	$2,000.00
No. 2 Crude (soft)	1,000.00	to	1,350.00
No. 3 Crude (soft)	400.00	to	675.00
Filter Fibre (soft)	250.00	to	475.00
No. 1 Crude (semi-soft)	1,200.00	to	1,500.00
No. 2 Crude (semi-soft)	900.00		
No. 3 Crude (semi-soft)	400.00		

CANADA— Per Ton 2,000 lbs. f.o.b. Mine Canadian Currency			
Group No. 1 (Crude No. 1)	$1,475.00	to	$1,850.00
Group No. 2 (Crude No. 2); Crude Run-of-Mine and Sundry	790.00	to	1,200.00
Group No. 3 (Spinning Fibre)	370.00	to	650.00
Group No. 4 (Shingle Fibre)	180.00	to	245.00
Group No. 5 (Paper)	120.00	to	150.00
Group No. 6 (Waste, Stucco or Plaster)	.....		86.00
Group No. 7 (Refuse or Shorts)	40.00	to	80.00

VERMONT—Per ton of 2000 lbs. f.o.b. Hyde Park or Morrisville, Vt.			
Group No. 3 (Spinning & Fitlering	$ 370.00	to	$ 428.00
Group No. 4 (Shingle Fibre)	181.00	to	200.00
Group No. 5 (Paper Fibre)	120.00	to	152.00
Group No. 6 (Waste, Stucco or Plaster)			86.00
Group No. 7 (Refuse or Shorts)	41.00	to	75.00

Drastic reduction of heat loss with **PABCO PRECISION-MOLDED CALTEMP** a Calcium Silicate Insulation

When vapors or liquids are conveyed or held at temperatures up to 1900° F.—when equipment is operated to high heat levels—Pabco insulations cut heat losses to absolute minimums. "Precision-Molded" by a patented process, Pabco's Caltemp and 85% Magnesia pipe and block insulations control temperatures within close tolerances. For data on technical advantages, case histories, or engineering consultation, write . . . or call a Pabco insulation engineer.

INSULATION GUIDE

Temperature	Recommended Pabco Insulation
to 550° F.	85% Magnesia pipe covering • block • cement
to 1200° F.	Caltemp pipe covering • block • cement
to 1500° F.	Prasco 15 C pipe covering • block • cement
to 1900° F.	Prasco 19 C block

PABCO

INDUSTRIAL INSULATIONS DIVISION

Fibreboard Paper Products Corporation
San Francisco 19 • Chicago 54
Houston 4 • New York 16 • Los Angeles

ATOMIC MINING CORP SEEKING MARKETS FOR ASBESTOS

With four asbestos properties and two mills in Quebec's Eastern Townships, Atomic Mining Corporation is investigating market possibilities in anticipation of establishing a producing operation. Two of the properties have produced on a small scale but continuous operation was not established.

The company's principal property, known as the "A" group, consists of 600 acres located at St. Adrien de Ham, 12 miles from Asbestos, Quebec, where the Canadian Johns-Manville operation is located. The "A" group was at one time owned by Dominion Asbestos Mines which constructed a 2,500-ton mill that operated for several months in 1953.

Reporting on the "A" property, H. J. Bergmann mining engineer, says that 9,000,000 tons grading 5.1% asbestos have been outlined by diamond drilling to a depth of 300 ft. Milling tests are said to have indicated approximately the same grade with a dollar value of $4.55 per ton. Total operating costs should not exceed $3 per ton, thus leaving a reasonable margin of profit, providing a steady market is assured for the fibre.

Over 6,000 ft. of diamond drilling has been done indicating the asbestos-bearing zone to have a length of approximately 1,600 ft. and a width varying from 100-400 ft. An adit was driven for 1,300 ft. and for 500 ft. cut obliquely across the zone covering a true width of almost 300 ft. A drift was driven along the zone for some 300 ft. The average from these samples was 4.62% asbestos.

Previous operators opened up two cuts to feed the mill. During the past year, Atomic has opened up a new cut for a length of 250 ft. and width of 200 ft. Some of the fibre recovered was milled and sold in Europe. A test run on 773 tons recovered 78,300 lbs. of fibre in grades ranging from 4T to 7RF and indicating a total recovery of 5.1% asbestos.

The "B" property, comprising 1,250 acres in Garthby Twp., is six miles north of Disraeli. A substantial tonnage of slip fibre is reported outlined. Operations were conducted on a small scale and ore was trucked 12 miles over

We take raw asbestos and fashion it to the needs of a thousand and one different consumers. Closely controlled through all stages of manufacture, asbestos is converted into Fibre, Yarns, Tapes, Cloths, Rovings, Tubing and Webbing widely used for heat and electrical insulation. It is also fabricated into many different kinds of friction materials, including the world-famous Mintex brake and clutch linings.

BRITISH BELTING & ASBESTOS LTD.

Cleckheaton, Yorkshire, England

to the company's mill near Coleraine rated at 750 tons per day capacity. Some fibre was produced and sold. A test run on 345 tons recovered 21,300 lbs. of fibre, a recovery of 3.08% with a value of $2.66 per ton. After adjustments for milling losses, it is estimated that the fibre content was 5.66% with a value of $3.73 per ton. Altogether some 20,000 tons were milled. The operation was not profitable but company officials feel that this was due in part to insufficient control of the mining.

Exploration of the "C" and "D" properties is in the initial stages but asbestos bearing zones have been indicated. The "C" property of 700 acres is in Wolfestown Twp. and "D" property, of 1,000 acres, is a mile to the northeast. The latter property is adjacent to the Coleraine mill.

Atomic is capitalized at 5,000,000 shares, $1 par, of which 4,150,000 have been issued. Directors are: J. A. Demers, president; G. Buteau vice-president; A. J. Doucet, secretary-treasurer. The head office is at 492 Grant Avenue, Longueuil, Quebec.

METATE ASBESTOS CORPORATION

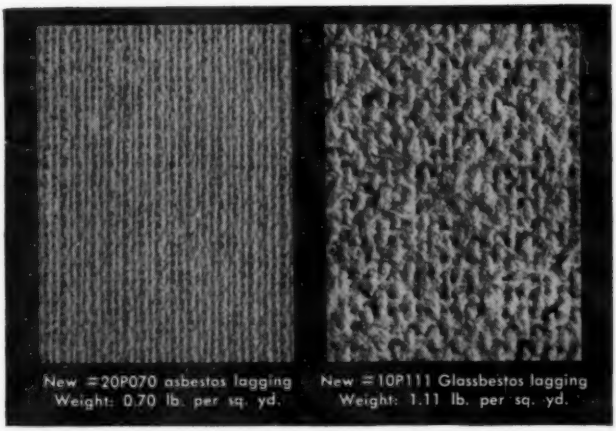
New Pilot Mill

Metate Asbestos Corporation's new pilot mill at Globe, Arizona is nearing completion and it is expected to be in full production by the first of May.

The mill has the latest types of machinery and will produce a complete line of low grade fibres, Groups 1 through 8 inclusive, and a very white, low iron content, milled fibre.

CORRECTION

James R. Reichel, Keasbey & Mattison Company, reported in our February issue, page 36, as having been appointed General Sales Manager of K&M's San Francisco District Office, was actually named General Sales Manager of the Company's asbestos-cement Pipe Division. Mr. Reichel, who was formerly manager of K&M's San Francisco District Office, is succeeded by *John Prechek* in that position.



New #20P070 asbestos lagging
Weight: 0.70 lb. per sq. yd.

New #10P111 Glassbestos lagging
Weight: 1.11 lb. per sq. yd.

NEW, LOWER-COST R/M ASBESTOS AND *Glassbestos*® LAGGING CLOTHS SAVE WEIGHT ON SHIPBOARD

Look for new profits by using the new R/M lagging cloths for shipboard application. Type #20P070 has only half the weight of standard Navy Class 5 lagging cloth and provides a 29% cost saving. Type 10P111 Glassbestos provides a cost and weight saving of more than 20% as compared with the standard 1.40 lb. Class 5 lagging cloth. Suitable for steam generating plants, too. Write now for full information and samples.

R M

RAYBESTOS-MANHATTAN, INC.
ASBESTOS TEXTILE DIVISION, Manheim, Pa.

FACTORIES: No. Charleston, S.C.; Manheim, Pa.; Bridgeport, Conn.; Paramount, Calif.; Passaic, N.J.; Neenah, Wis.; Crawfordsville, Ind.; Peterborough, Ontario, Canada

RAYBESTOS-MANHATTAN, INC., Asbestos Textiles • Laundry Pads and Covers • Mechanical Packings • Brake Linings • Brake Blocks Clutch Facings • Rubber Covered Equipment • Industrial Rubber Engineered Plastics • Sintered Metal Products • Industrial Adhesives Abrasive and Diamond Wheels • Bowling Balls

SOUTHERN ASBESTOS — TEXTILES

SOUTHERN ASBESTOS COMPANY, CHARLOTTE 1, N. C.